

**Notice of Allowability**

Application No.

10/642,796

Examiner

Trang U. Tran

Applicant(s)

BRAUN, KAREN M.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the response under 37 C.F.R. 1.111 filed July 03, 2006.
2. ☒ The allowed claim(s) is/are 1-4, 7-9 and 12-23 (renumbered 1-19).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                   |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>7/21/2006</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>04/06/2006</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                 | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                          |
|  | 9. <input type="checkbox"/> Other ____.   |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael J. Nickerson on July 19, 2006.

The application has been amended as follows:

In claim 1:

Line 6, the phrase "each pixel of color image data" has been changed to --each pixel of the color image data--.

Line 19, the phrase "and calculating of the destination chroma" has been changed to --and the calculating of the destination chroma--.

Lines 21-22, the sentence "replacing each chroma value in the digital image file the associated calculated destination chroma value to generate a modified digital image file" has been changed to --generating a modified digital image file by replacing each chroma value in the digital image file the associated calculated destination chroma value --.

In claim 12:

Line 4, the phrase "each pixel of color image data" has been changed to --each pixel of the color image data--.

Line 15, the phrase "and calculating of the destination hue" has been changed to --and the calculating of the destination hue--.

Lines 16-17, the sentence "replacing each hue value in the digital image file the associated calculated destination hue value to generate a modified digital image file" has been changed to --generating a modified digital image file by replacing each hue value in the digital image file the associated calculated destination hue value --.

In claim 19:

Line 2, the phrase "first colorscape" has been changed to --first colorspace--.

Line 5, the phrase "each pixel of color image data" has been changed to --each pixel of the color image data--.

Lines 6-7, the phrase "first colorscape value (CS1), a second colorscape value (CS2), and a first colorscape value (CS3)" has been changed to --first colorspace value (CS1), a second colorspace value (CS2), and a third colorspace value (CS3)--.

Lines 11-12, the phrase "first colorscape weight value (CS1weight), a second colorscape weight value (CS2weight), and a third colorscape weight value (CS3weight)" has been changed to --first colorspace weight value (CS1weight), a second colorspace weight value (CS2weight), and a third colorspace weight value (CS3weight)--.

Line 13, the phrase "a first colorscape" has been changed to --a first colorspace--

Line 15, the phrase "a first colorscape" has been changed to --a first colorspace--

Line 16, the phrase "each first colorscape" has been changed to --each first colorspace--.

Line 17, the phrase "first colorscape" has been changed to --first colorspace--.

Line 18, the phrase “colorscape change value, the calculating of the first colorscape adjustment” has been changed to – colorspace change value, the calculating of the first colorspace adjustment --.

Line 19, the phrase “calculating of the first colorscape destination value” has been changed to --the calculating of the first colorspace destination value--.

Lines 20-21, the sentence “replacing each first colorscape value in the digital image file the associated calculated first colorscape destination value to generate a modified digital image file” has been changed to --generating a modified digital image file by replacing each first colorspace value in the digital image file the associated calculated first colorspace destination value --.

These changes will place this application in condition for allowance.

2. The following is an examiner’s statement of reasons for allowance:

Claims 1-4, 7-9 are directed to a method for squeezing chroma values of a digital image. The independent claim 1 identifies the distinct features “(d) calculating a chroma change value ( $\Delta C = C_{in} - C_{pref}$ ); (e) calculating a chroma weight value ( $C_{weight}$ ), a hue weight value ( $H_{weight}$ ), and a lightness weight value ( $L_{weight}$ ); (f) calculating a chroma adjustment value ( $C_{adjust} = \Delta C * (H_{weight} * C_{weight} * L_{weight})$ ), and (g) calculating a destination chroma value ( $C_{out} = C_{in} - C_{adjust}$ ); (h) repeating, for each chroma value in the digital image file, the selecting of the chroma value from the digital image file, the calculating of the chroma change value, the calculating of the chroma adjustment value, and calculating of the destination chroma value”. All the references of record, either

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singularly or in combination, fail to anticipate or render the above underlined limitation obvious.

Claims 12-18 are directed to a method for squeezing hue values of a digital image. The independent claim 12 identifies the distinct features “(d) calculating a hue change value ( $\Delta H = H_{in} - H_{pref}$ ); (e) calculating a chroma weight value ( $C_{weight}$ ), a hue weight value ( $H_{weight}$ ), and a lightness weight value ( $L_{weight}$ ); (f) calculating a hue adjustment value ( $H_{adjust} = \Delta H * (H_{weight} * C_{weight} * L_{weight})$ ), and (g) calculating a destination hue value ( $H_{out} = H_{in} - H_{adjust}$ ); (h) repeating, for each hue value in the digital image file, the selecting of the hue value from the digital image file, the calculating of the hue change value, the calculating of the hue adjustment value, and calculating of the destination hue value”. All the references of record, either singularly or in combination, fail to anticipate or render the above underlined limitation obvious.

Claims 19-23 are directed to a method for squeezing first colorspace values of a digital image. The independent claim 1 identifies the distinct features “(d) calculating a first colorspace change value ( $\Delta CS1 = CS1_{in} - CS1_{pref}$ ); (e) calculating a first colorspace weight value ( $CS1_{weight}$ ), a second colorspace weight value ( $CS2_{weight}$ ), and a third colorspace weight value ( $CS3_{weight}$ ); (f) calculating a first colorspace adjustment value ( $CS1_{adjust} = \Delta CS1 * (CS1_{weight} * CS2_{weight} * CS3_{weight})$ ), and (g) calculating a first colorspace destination value ( $CS1_{out} = CS1_{in} - CS1_{adjust}$ ); (h) repeating, for each first colorspace value in the digital image file, the selecting of the first colorspace value from the digital image file, the calculating of the first colorspace change value, the calculating of the first colorspace adjustment value, and calculating of the first colorspace

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destination value". All the references of record, either singularly or in combination, fail to anticipate or render the above underlined limitation obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 8:00 AM - 5:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TT TT  
July 21, 2006

A handwritten signature in black ink, appearing to read 'David Ometz', with a long horizontal stroke extending to the right.

DAVID OMETZ  
SUPERVISORY PATENT EXAMINER